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52. The method of claim 29, wherein said selecting step is performed by immobilizing said product molecule to a bead.

53. The method of claim 29, wherein said selecting step is preformed by immobilizing said product to a microchip.

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54. The method of claim 29, wherein said selecting step is preformed by the catalyst and the at least one substrate are bound to a matrix, and wherein said catalyst is released from said matrix when said at least one substrate is converted to said at least one product by said catalyst.

cont
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55. The method of claim 29, wherein said selecting step is preformed by providing a column having at least one receptor that is able to bind said at least one product.

REMARKS

This amendment is submitted in response to the Restriction Requirement. Claims 1-27 are canceled and new claims 28-55 are added. The new claims generally correspond to the subject matter presented in original claims 1-27, however, the new claims are presented in a form more suitable for US patent practice. There is no new matter added, and entry of the amendment is respectfully requested.

Applicants respond to the restriction requirement as follows:

1. Applicants elect the genus designated as "peptide or polypeptide catalyst molecules."
2. The following species are also elected and/or believed to be rendered moot by the amendment:

A. Applicants elect as the species of catalytic activity of interest: improved enzymatic activity toward its substrate.

B. The structural components of interest that are common to all units are a catalyst and at least one substrate or, depending on the step, a catalyst and at least one product. In each unit, the catalyst may vary. Applicants elect as a species of a biologically amplifiable unit the species designated as "phages."

C. Applicants elect as a species of a substrate a substrate for an enzyme.

D. Applicants respectfully submit that the requirement to elect "an entity comprising information" is rendered moot by the Amendment. However, to the

extent that the Examiner deems this species election is still needed to carry out examination, Applicants elect that the entity comprising information is a peptide or polypeptide that has an amino acid sequence of interest.

E. Applicants elect as a species of selection, the method of immobilizing said product.

F. Applicants elect as a species of a flexible linker, a flexible peptide or polypeptide.

G. Applicants elect as a species of a carrier system a phage-peptide carrier system.

H. Applicants respectfully submit that the election of a species of an affinity tag is rendered moot by the Amendment. However, to the extent the Examiner deems that the species election it is still needed to carry out Examination of the claims, Applicants elect the species of a histidine tag.

I. Applicants elect as a species of immobilization: "an affinity column."

The Examiner is hereby invited to contact the undersigned by telephone if there are any questions concerning this amendment or application.

Respectfully submitted,

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